

The diagram illustrates a complex power plant system, likely a gas turbine cycle, with the following components and flow paths:

- Compressor (10):** Driven by a gas turbine engine (11), it compresses air (12) from inlet 14 to outlet 16.
- Heat Exchanger (20):** Receives compressed air (16) and transfers heat to a secondary fluid (22) exiting at the bottom.
- Compressor (30):** Driven by a gas turbine engine (11), it compresses a secondary fluid (24) from inlet 26 to outlet 28.
- Heat Exchanger (40):** Receives compressed secondary fluid (28) and transfers heat to a third fluid (32) exiting at the bottom.
- Compressor (60):** Driven by a gas turbine engine (11), it compresses a third fluid (62) from inlet 64 to outlet 66.
- Heat Exchanger (80):** Receives compressed third fluid (66) and transfers heat to a fourth fluid (82) exiting at the bottom.
- Interconnecting Pumps and Piping:**
  - A pump (90) circulates fluid from a lower reservoir (92) to a higher reservoir (94).
  - A pump (96) circulates fluid from a lower reservoir (98) to a higher reservoir (100).
  - Various connecting pipes (e.g., 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100) link these components into a continuous cycle.

Selective Separation of Fluid Compounds Utilizing A  
Membrane Separation Process  
C. W. Colling, Bo Chen and George A. Huff, Jr.  
Case No. 37,495  
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